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WHAT IS CLAIMED IS:

access to the server.

1	1.	A method for detecting clones (unauthorized duplicate identities) of
2	the client, the method	comprising:

forwarding a first signal from a client to a KDC, the first signal for requesting access to a server:

verifying that the client is authorized to access the server;

transmitting a ticket from the KDC to the client, the ticket for providing access to the server, wherein the ticket is valid for a time T:

receiving a second signal from an entity, the second signal for requesting access to the server, wherein the entity has identifying information identical to the client; and if the second request is received prior to expiration of the time T, either marking the entity as a possible clone or denying the second request in order to prevent

The method of claim 1 further comprising providing a session key in the ticket, the session key being valid for a designated duration.

- 3 The method of claim 2 wherein the designated duration is for determining the time T for which the ticket is valid.
- A system for detecting clones of a client within a communication network, the system comprising:

a KDC:

an application server communicably coupled to the KDC:

a client for providing a first request to access the application server:

responsive to the first request, the KDC forwarding a first ticket for accessing the application server, the first ticket being valid for a time duration T;

the KDC receiving a second request to access the application server, the second request being received from an entity having identifying information identical to the client; and

11 if the second request is received during time T, the KDC denying the second 12 request to prevent the entity from accessing the application server.

- The system of claim 4 wherein the entity is a clone.
- 1 6 The system of claim 5 wherein the identifying information is a client 2 identifier copied by the clone.

1	7. The system of claim 4 wherein the ticket further comprises an		
2	encrypted session key.		
1	8. The system of claim 7 further comprising		
2	the client deriving a copy of the session key for accessing the application		
3	server.		
1	9. The system of claim 8 wherein the session key is derived using a key		
2	agreement algorithm.		
1	10. The system of claim 9 wherein the key agreement algorithm is the		
2	Diffie-Hellman algorithm.		
1	11. The method of claim 1 further comprising		
2	using a key algorithm for authenticating communication between the KDC and		
3	the client such that all clients wishing access to the server are required to contact the KDC.		
1	12. The method of claim 4 further comprising		
2	requiring all entities wishing to access the server to communicate with the		
3	KDC.		
1	13. A system for detecting clones (duplicate identities) of an authorized		
2	computing device in a communication network, the system comprising:		
3	a first computing device;		
4	a second computing device authorized to access the first computing device;		
5	a key management means for providing to the second computing device, a		
6	session key for accessing the first computing device, the session key being invalid after a		
7	period T;		
8	the key management means receiving one or more requests from an entity, to		
9	access the first computing device, the entity having identifying information identical to the		
10	second computing device; and		
11	the key management means permitting the entity to access the first computing		
12	device, provided the number of access requests received during period T, is M or less		
13	requests.		
1	14. The system of claim 13 wherein the key management means utilizes		
2	Diffie-Hellman key agreement algorithm to distribute session keys.		
1	15. The system of claim 13 further comprising		
2	the key management means flagging the entity if more than M requests are		
3	received from the entity.		

1	 The system of claim 13 wherein the identifying information is an 		
2	identifier for the second computing device.		
1	17. The system of claim 13 further comprising		
2	the key management means denying access to the first computing device, if		
3	more than M requests are received.		
1	18. A system for detecting clones of a client within a communication		
2	network, the system comprising:		
3	a KDC;		
4	a server communicably coupled to the KDC;		
5	a client for receiving a ticket from the KDC, wherein the ticket is for accessing		
6	the server, and is valid for a time duration T;		
7	the server receiving from the client a first request to access the server, the first		
8	request being accompanied by the ticket;		
9	the server recording the time duration T for which ticket is valid;		
0	the server receiving from an entity, a second request to access the server, the		
1	entity having identifying information identical to the client and		
2	the server either flagging or denying the second request to prevent access to		
3	the server, if the second request is received during the time duration T.		
1	The system of claim 18 further comprising		
2	the KDC encrypting a session key within the ticket; and		
3	the client extracting a copy of the session key in a manner that no entity oth		
4	than the client can access the session key.		
1	20. The system of claim 18 further comprising		
2	necessitating by the system, all clients wishing to access the server to		
3	communicate with the KDC.		
1	21. The method of claim 18 wherein a ticket granting server is the server		
2	and the ticket is a ticket granting ticket.		
1	22. A method for detecting clones in a communication network, the		
2	method comprising:		
3	providing a ticket to an authorized client, the ticket for accessing a KDC, the		
4	ticket having a session key valid for a time duration T;		
5	receiving a request to access the KDC, the request being received from an		
6	entity with the same identifying information as the authorized client; and		

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- if the request is received during time T, flagging the entity as a possible clone or denying the request to access to the KDC.

 1 23. The method of claim 22 wherein the ticket is a TGT (ticket granting ticket).

 24. The method of claim 1 wherein the KDC marks the entity as a possible clone or denies the second request in order to prevent access to the server.
- 1 25. The method of claim 1 wherein the server marks the entity as a 2 possible clone or denies the second request in order to prevent access to the server.
 - The method of claim 18 wherein the KDC is the server.